

IN THE CLAIMS

Please amend claims 1, 3, 4, 10, 12 and 15 and cancel claims 5 and 11 as follows:

1. (Currently Amended) A cooperative computer based system including a plurality of clients and a server for editing a web document, the cooperative computer based system comprising:

 a first user interface module in each of the plurality of the clients for generating editing instructions by receiving data from a user;

 a first document manager module in each of the plurality of the clients for converting the editing instruction into a message and transmitting the message, and modifying a copy of the web document and informing a modification of the copy to the first user interface module;

 a second document manager module in the server for modifying contents of the web document by receiving the message from the first document manager module; and

 a second user interface module in the server for transmitting and informing a modification of the web document to the first document manager,

wherein the second document manager module of the server includes:

means for receiving the message related to editing from the first document manager module;

means for determining if a lock is requested for the web document;

means for determining if the user has an authority to edit the web document;

means for modifying contents of the web document edited by the user, if the user has an authority to edit the web document;

means for informing the second user interface module that the second document

manager module completed modifying the contents of the web document;
means for converting the modified contents of the web document to a message
related to editing to be transmitted to the plurality of the clients; and
means for transmitting the message related to editing to the first document
manager module of the plurality of the clients.

2. (Cancelled)

3. (Currently Amended) The cooperative computer based system as recited in claim 2 1,
wherein the first user interface module includes:

means for converting data received from a user to editing instructions when at least one
of the plurality of clients edits the web document; and
means for transmitting the editing instructions to the first document manager module.

4. (Currently Amended) The cooperative computer based system as recited in claim 2 1,
wherein the first document manager module includes:

means for determining if the editing instructions are correct;
means for converting the editing instructions to a message related to editing which
can be received by the plurality of the clients, if the editing instructions are correct; and
means for transmitting the message related to editing to the second document manager
module.

5. (Cancelled)

6. (Previously Presented) The cooperative computer based system as recited in claim 1, wherein the second user interface module of the server includes means for displaying the modified contents of the web document.

7. (Previously Presented) The cooperative computer based system as recited in claim 1, wherein the second user manager module of the server includes:

means for managing information about users to participate in cooperative editing; and

means for determining if the user is allowed to edit by checking an identification and a password of the user, when the user logs in.

8. (Previously Presented) The cooperative computer based system as recited in claim 4, wherein each first document manager module of the plurality of the clients includes:

means for modifying each copied web document stored in the plurality of the clients conforming to the modified contents, based on the message related to editing transmitted from the second document manager module of the server; and

means for informing each first user interface module of the plurality of the clients that it is completed that the contents of each copied web document are modified.

9. (Previously Presented) The cooperative computer based system as recited in claim 3, wherein each first user interface module of the plurality of the clients includes means for displaying the modified contents, upon being informed that it is completed that the contents of each copied web document are modified.

10. (Currently Amended) A method for cooperative editing of the web document in a cooperative computer based system including a server and a plurality of clients, the method comprising the steps of:

- a) at a client, generating editing instructions, converting editing instructions to a message related to editing and transmitting the message related to editing to the server;
- b) at the server, if the web document can be modified, modifying contents of a copied web document stored in the server conforming to the message related to editing; and transmitting the message related to editing to the plurality of the clients; and
- c) modifying contents of the copied web document stored in each of the plurality of the clients conforming to the message related to editing transmitted from the server,

wherein the step a) includes the steps of:

- a1) at the client, determining if it is possible to modify the web document, based on the editing instructions;
- a2) disregarding the editing instructions if a portion of the web document to be modified is requested to be in a lock state by other users or the user has no authority to edit the document; and
- a3) if the portion of the web document to be modified is not requested to be in the lock state by other users and the user has the authority to edit, converting the editing instructions to the message related to editing and transmitting the message related to editing to the server.

11. (Cancelled)

12. (Currently Amended) The method as recited in claim ~~11~~ 10, wherein a line number, modified contents and a user identification (ID) are included in the message related to editing.

13. (Original) The method as recited in claim 12, wherein the step b) includes the steps of:

- b1) searching a node having a line number equal to the line number included in the message related to editing from contents list of the server;
- b2) determining if the node is in the lock state;
- b3) if the node is not in the lock state, determining if the user has the authority to editing, and otherwise, determining if the lock is requested by the user who modified the contents;
- b4) if the user has the authority to editing, modifying the contents included in the node and then informing a user interface module of the server that the contents are modified;
- b5) converting the modified contents to the message related to editing and transmitting the message related to editing to the plurality of the clients;
- b6) if the lock is requested by the user who modified the contents, going to the step b3); and
- b7) disregarding the message related to editing if the lock is not requested b the user who modified the contents or if the user has no authority to editing.

14. (Original) The method as recited in claim 13, wherein the step c) includes the steps of:

- c1) determining if a my user ID indicating an ID of the user who modified the contents is equal to the user ID contained in the message related to editing received from the server;
- c2) if the my user ID is not equal to the user ID, searching the node having a line number equal to the line number from the contents list of each of the plurality of the clients;
- c3) modifying contents included in the node and informing the user interface module of each of the plurality of the clients that the contents are modified;
- c4) at the user interface module of each of the plurality of the clients, displaying the modified contents; and
- d5) if a my user ID is equal to the user ID, storing the modified contents in an editing list included in the client of the user who modified the contents and then going to the step c2).

15. (Currently Amended) A computer-readable record media storing instructions for performing a method for editing a web document cooperatively in a cooperative computer based system including a server and a plurality of clients, the method comprising the steps of:

- a) at a client among the plurality of the clients, generating editing instructions, converting editing instructions to a message related to editing and transmitting the message related to editing to the server;
- b) at the server, determining if the web document can be modified, based on the message related to editing; modifying contents of a copied web document stored in the server conforming to the message related to editing; and transmitting the message related to editing to the plurality of the clients; and

c) modifying contents of the copied web document stored in each of the plurality of the clients conforming to the message related to editing transmitted from the server,

wherein the step a) includes the steps of:

a1) at the client, determining if it is possible to modify the web document, based on the editing instructions;

a2) disregarding the editing instructions if a portion of the web document to be modified is requested to be in a lock state by other users or the user has no authority to edit the document; and

a3) if the portion of the web document to be modified is not requested to be in the lock state by other users and the user has the authority to edit, converting the editing instructions to the message related to editing and transmitting the message related to editing to the server.